

**ABSTRACT**

The present invention provides nucleic acids and amino acids for novel olfactory receptors as well as methods for identifying olfactory receptors. More specifically, the present invention provides nucleic acids and amino acids for novel olfactory receptors in *Drosophila* as well as methods of using the provided nucleic acids and amino acids. In addition, this invention provides methods of identifying ligands which bind to the novel olfactory receptors as well as a variety of methods for using the ligands so identified.

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